32

BRUHAT BANGALORE MAHANAGARA PALIKE

Detailed estimate for the work of :- Construction of Individual Houses for SC ST beneficiaries at gedallahalli Block- 2 in ward No 18 Hebbala

Estimate Cost Rs.9.00Lakhs

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
1	Dismantling Burnt brick masonry in Clay mortar/lime mortar/ cement mortar/ and stacking the bricks with in a radious of 50 M and removing the debris to distance upto 200M (Page No. 234, Item No.37.47) As per CSR 2009-10								
	All round	3	15.00	0.23	3.00	31.05			
						31.05	133.13	Cum	4134.00
	Basic Rate:-	=	100.00						
	2x1.28x10		25.60						
	Sub Total:-		125.60						
	Add 6% Area Weightage	=	7.53						
	Total:-		133.13						
2	**Earth work excavation** for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, **in ordinary soil**, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications.(P.No.5, I.No.2.3)								
	For foundation all round	1	19.20	0.60	0.60	6.91			
	Long wall	1	3.70	0.60	0.60	1.33			
	Short wall	1	2.00	0.60	0.60	0.72			
	For Columns	6	1.00	1.00	1.10	6.60			
	Deduction					15.56			
		6	0.60	0.60	0.60	1.30			
					Total	14.27			
	For 3 houses					42.80	127.20	Cum	5445.00
	Basic Rate	120.00							
	Area Weightage @ 6%	7.20							
	Total	**127.20**							
3	Providing and laying in position **plain cement concrete of mix 1:4:8** using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms . Thick, well compacted in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P-12 I.No.4.3)								
	For foundation all round	1	19.20	0.60	0.15	1.73			
	Long wall	1	3.70	0.60	0.15	0.33			
	Short wall	1	2.00	0.60	0.15	0.18			
	For Columns	6	1.00	1.00	0.15	0.90			
	For flooring	1	4.10	3.00	0.10	1.23			
		1	2.50	2.40	0.10	0.60			
		1	1.50	2.40	0.10	0.36			
	Deduction					5.33			

	Column footing	6	0.60	0.60	0.15	0.32			
					Total	**5.01**			
	For 3 houses					**15.03**	**3431.22**	**Cum**	**51572.00**
	Basic Rate	3101.00							
	diff cement cost =1.7Qtl*80 rs/qtl	136.00							
		3237.00							
	Area Weightage @ 6%	194.22							
	Total	**3431.22**							
4	Providing and constructing granite/ trap/basalt **size stone masonry in foundation with cement mortar 1:6,** stone hammed dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials labour,curing complete as per specifications and direction of the Engineer-in-Charge (P-22 I No. 5.6)								
	For foundation	1	19.20	0.60	0.45	5.18			
		1	3.70	0.60	0.45	1.00			
		1	2.00	0.60	0.45	0.54			
	Deduction					**6.72**			
	Column footing	6	0.20	0.30	0.60	0.22			
					Total	**6.51**			
	For three Houses	**3**		**6.51**		**19.52**	**2548.24**	**Cum**	**49745.00**
	Basic Rate	2348.00							
	diff cement cost =0.7Qtl*80 rs/qtl	56.00							
		2404.00							
	Area Weightage @ 6%	144.24							
	Total	**2548.24**							
5	Providing and constructing granite/ trap/basalt **size stone masonry in Basement with cement mortar 1:6,** edges of stone chistle dressed in courses not less than 15cms high, bond stones at two m. apart in each course including cost of materials labour,curing complete as per specifications and direction of the Engineer-in-Charge (P-22 I No. 5.9)								
	For foundation	1	19.20	0.45	0.23	1.99			
		1	4.75	0.45	0.23	0.49			
		1	2.15	0.45	0.23	0.22			
	Deduction					**2.70**			
	Column footing	6	0.20	0.30	0.23	0.08			
					Total	**2.62**			
	For three Houses	**3**		**2.62**		**7.86**	**3018.88**	**Cum**	**23728.00**
	Basic Rate	2792.00							
	diff cement cost =0.7Qtl*80 rs/qtl	56.00							
		2848.00							
	Area Weightage @ 6%	170.88							
	Total	**3018.88**							
6	Filling avaialable excavated earth (exluding rock) in sides of foundation upto plinth in layers not exceeding 20cms in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification (Page 6, Item 2.1)								

	Qty vide Item no.2					**42.80**	**85.65**	**Cum**	**3667.00**
	Basic Rate	80.80							
	Area Weightage @ 6%	4.85							
	Total	**85.65**							
7	Providing and laying in position **reinforced cement concrete of nominal mix 1:1.5:3 (M20)** with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C.beams,columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase,lintels, columns, including cost of all materials, labhour, HOM of machinery, curing complete as per specifications. (P.No.13,I.No.4.17)								
	For column footing	6	1.00	1.00	0.30	1.80			
	For Columns upto plinth	6	0.20	0.30	0.88	0.32			
	From plinth to roof	6	0.20	0.30	2.70	0.97			
	For plinth beam	1	19.20	0.20	0.20	0.77			
		1	4.10	0.20	0.20	0.16			
		1	2.40	0.20	0.20	0.10			
	For Lintels	1	1.50	0.20	0.15	0.05			
		1	2.00	0.20	0.15	0.06			
		1	1.00	0.20	0.15	0.03			
	For roof slab	1	4.50	6.00	0.125	3.38			
	beams	1	19.20	0.20	0.20	0.77			
		1	4.10	0.20	0.20	0.16			
					Total	**8.56**			
	For three Houses	**3**		**8.56**		**25.68**	**5150.54**	**Cum**	**132248.00**
	Basic Rate	4539.00							
	diff cement cost =4.00Qtl*80 rs/qtl	320.00							
		4859.00							
	Area Weightage @ 6%	291.54							
	Total	**5150.54**							
8	Providing and constructing non-load bearing wall with **cement concrete blocks** with compressive strength not less than 35kg/sqm with cement mortar 1:4,(Jamb,closer blocks) with blocks of size **40x20x20cms**.(lxbxh) confirming to I.S: 2185/1965 in superstructure including cost of materials, labhour charges, scaffolding, curing complete as per specifications.(P.No.24, I.No.5.27).								
	All round	1	19.20		2.75	52.80			
		1	4.10		2.75	11.28			
	For parapet wall	1	19.20		0.40	7.68			
						71.76			
	Deductions								
	Door	1	0.90		2.10	1.89			
		2	0.75		2.10	3.15			
	Window	2	1.00		1.20	2.40			
		1	0.60		0.60	0.36			

	Columns	6	0.30		2.75	4.95			
					Total	**59.01**			
	For three Houses	**3**		**59.01**		**177.02**	**627.10**	**Sqm**	**111007.00**
	Basic Rate	586.00							
	diff cement cost =0.07Qtl*80 rs/qtl	5.60							
		591.60							
	Area Weightage @ 6%	35.50							
	Total	**627.10**							
9	Providing and constructing non-load bearing wall with **cement concrete blocks** with compressive strength not less than 35kg/sqm with cement mortar 1:4,(Jamb,closer blocks) with blocks of size **40x10x20cms**.(lxbxh) confirming to I.S: 2185/1965 in superstructure including cost of materials, labhour charges, scaffolding, curing complete as per specifications.(P.No.24, I.No.5.28).								
	Short wall	**1**	2.40		**3.00**	7.20			
						7.20			
	For three Houses	**3**		**7.20**		**21.60**	**449.65**	**Sqm**	**9713.00**
	Basic Rate	421.00							
	diff cement cost =0.04Qtl*80 rs/qtl	3.20							
		424.20							
	Area Weightage @ 6%	25.45							
	Total	**449.65**							
10	**Providing and removing centering, shuttering,** strutting, propping etc., and removal form work for flat surface such as suspended floors, roofs, landings, balconies and like, thickness upto 200mm including cost of materials, labhour complete as per specification.(P.No.14,I.No.4.29)								
	For Columns	6	1.00		3.65	21.90			
	For plinth beam	2	19.20		0.15	5.76			
		2	4.10		0.15	1.23			
		2	2.40		0.15	0.72			
	For Lintels	2	1.50		0.15	0.45			
		2	2.00		0.15	0.60			
		2	1.00		0.15	0.30			
	For roof slab	1	4.10		3.000	12.30			
		1	2.00		2.400	4.80			
		1	1.50		2.400	3.60			
	beams	2	19.20		0.23	8.83			
		2	4.10		0.23	1.89			
					Total	**62.38**			
	For three Houses	**3**		**62.38**		**187.13**	**233.20**	**Sqm**	**43640.00**
	Basic Rate	220.00							
	Area Weightage @ 6%	13.20							
	Total	**233.20**							

11	Providing and laying in position reinforced cement concrete of nominal mix 1:1.5:3 with 12mm and down size graded granite metal, machine mixed, wellc compacted for **plain chajja 7.5cms.** Average thickness, upto ground floor level, including cost of all materials, labour HOM of machinery finishing, curing complete as per specifications. (P-13 I No. 4.19)								
	Front	1	4.00	0.60		2.40			
	Kitchen	1	2.00	0.60		1.20			
					Total	3.60			
	For three Houses	**3**		**3.60**		**10.80**	**389.23**	**Sqm**	**4204.00**
	Basic Rate	348.00							
	diff cement cost =0.24Qtl*80 rs/qtl	19.20							
		367.20							
	Area Weightage @ 6%	22.03							
	Total	**389.23**							
12	Providing **12mm thick cement plaster** in single coat with cement mortar 1:4 to ceiling including rounding off corners wherever required smooth rendering,: providing and removing scaffolding, including cost of materials,labhour, curing complete as per specifications.(P.No.98, I.No.15.22)								
	For ceiling Hall	1	4.10	3.00		12.30			
	Kitchen	1	2.50	2.40		6.00			
	Bath	1	1.50	2.40		3.60			
					Total	21.90			
	For three Houses	**3**		**21.90**		**65.70**	**120.75**	**Sqm**	**7934.00**
	Basic Rate	110.00							
	diff cement cost =0.098*40.00 rs/qtl	3.92							
		113.92							
	Area Weightage @ 6%	6.83							
	Total	**120.75**							
13	Providing 15**mm thick cement plaster** in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering,: providing and removing scaffolding, including cost of materials,labhour, curing complete as per specifications.(P.No.97, I.No.15.14)								
	For Intenal walls								
	Hall	1	14.20	2.95		41.89			
	Kitchen	1	9.80	2.95		28.91			
		1	7.80	2.95		23.01			
						93.81			
	Deductions								
	Door	1	0.90		2.10	1.89			
		4	0.75		2.10	6.30			
	Window	2	1.00		1.20	2.40			
		1	0.60		0.60	0.36			
					Total	**82.86**			

	For three Houses	**3**		**82.86**		**248.58**	**111.51**	**Sqm**	**27720.00**
	Basic Rate	102.00							
	diff cement cost =0.04Qtl*80 rs/qtl	3.20							
		105.20							
	Area Weightage @ 6%	6.31							
	Total	**111.51**							
14	Providing and **lime rendering for plastering** to wall and ceiling including cost of materials, labhour , curing complete as per specifications(P.N0.99,I.No.15.33)								
	For ceiling								
	Qty. vide item No.12								
						65.70			
	Qty. vide item No.13								
						248.58			
					Total	**314.28**	**16.96**	**Sqm**	**5331.00**
	Basic Rate	16.00							
	Area Weightage @ 6%	0.96							
	Total	**16.96**							
15	Providing **18mm thick cement plaster** in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering,: providing and removing scaffolding, including cost of materials,labhour, curing complete as per specifications.(P.No.98, I.No.15.17)								
	For external walls	2	4.50	3.15		28.35			
		2	6.00	3.15		37.80			
	Parapet	2	19.20	0.40		15.36			
						81.51			
	Deductions								
	Door	1	1.00	2.10		2.10			
	Window	2	1.00	1.20		2.40			
	vevtilator	1	0.60	0.60		0.36			
					Total	**76.65**			
	For three Houses	3		**76.65**		**229.95**	**131.39**	**Sqm**	**30214.00**
	Basic Rate	120.00							
	diff cement cost =0.099Qty*80 rs/qtl	3.96							
		123.96							
	Area Weightage @ 6%	7.43							
	Total	**131.39**							
16	Providing mosaic tiles flooring with precast medium shade pigment using 50% white cement and 50% ordinary cement mosaic tiles 20mm thick using marble chips of approved colour 7 to 10 nominal size laid in floors and landings on a bed of 25mm thick average thickness of cement mortar 1:6 mix, jointed with neat cement slurry mix with pigment to match the shade of tiles, curing, rubbing, polishing, oxalic acid wash, wax polish including cost of materials labour HOM of machinery complete as per specifications (Pg 91, It 14.26)								
	Flooring hall	1	4.10	3.60		14.76			

	Kitchen	1	2.50	2.40		6.00			
	Skirting	1	25.20	0.10		2.52			
					Total	**23.28**			
	For three Houses	**3**		**23.28**		**69.84**	**501.80**	**Sqm**	**35046.00**
	Basic Rate	463.00							
	— diff cement cost =0.13Qtl*80 rs/qtl	10.40							
		473.40							
	Area Weightage @ 6%	28.40							
	Total	**501.80**							
17	Providing colour glazedzed tiles of all sizes 10mm thick for flooring, treads of steps and landing laid on a bed of 12mm thick , cement mortar 1:3 mix, flush pointing using white cement,with matching colour pigment, including cost of a materials, labour, curing, complete as per specifications (Page No. 93, Item No. 14.33)								
	Toilet	**1**	1.50	2.40		**3.60**			
	For three Houses	**3**		**3.60**		**10.80**	**758.11**	**Sqm**	**8188.00**
	Basic Rate	708.00							
	diff cement cost =0.09Qtl*80 rs/qtl	7.20							
		715.20							
	Area Weightage @ 6%	42.91							
	Total	**758.11**							
18	Providing skirting, dado rises of steps withWhite glazed tiles 20x20cms 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (Exclude cost of rough plastered surface which should be measured and paid separetely) using glazed tiles of approved make and size including cost of materials labour complete as per specifications (page No. 94, Item No. 14.40)								
	Toilet	**1**	6.00	0.75		**4.50**			
	For three Houses	**3**		**4.50**		**13.50**	**752.81**	**Sqm**	**10163.00**
	Basic Rate	703.00							
	diff cement cost =0.09Qtl*80 rs/qtl	7.20							
		710.20							
	Area Weightage @ 6%	42.61							
	Total	**752.81**							
19	Providing and laying two coats with oil bound washable **distemper** of approved brand and shade on **wall surface** including priming coat with distemper primer after throughly brooming the surface free from mortar dropsand other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications (P-101, I No. 15.49)								
						314.28			
	Qty vide item no.14				**Total**	**314.28**	**51.94**	**Sqm**	**16324.00**
	Basic Rate	49.00							
	Area Weightage @ 6%	2.94							

	Total	**51.94**							
20	Providing and finishing **external walls** in two coats with primer water proof **cement paint** of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specification (P-102 I No. 15.53.2)								
	For External walls								
	Qty vide item no.15					**229.95**			
					Total	**229.95**	**63.60**	**Sqm**	**14625.00**
	Basic Rate	60.00							
	Area Weightage @ 6%	3.60							
	Total	**63.60**							
21 –	Providing **TMT steel reinforcement for RCC work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wiere and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials labour HOM of machinery complete (P-16 I No. 4.46)								
	Consider 90 kg per Cum				**Total**	**7.70**			
	For three Houses	**3**		**7.70**		**23.11**	**5730.36**	**Qtl**	**132422.00**
	Basic Rate	5406.00							
	Area Weightage @ 6%	324.36							
	Total	**5730.36**							
22	Providing Sal wood frames of doors windows, clerestory windows, ventilators and other frames wrought, framed of assembled including making plaster grooves (excluding cost of materials, labour, HOM of machineries complete as per specifications (Page No. 45, Item No. 9.13)								
	Door	1	6.60	0.12	**0.075**	0.06			
	Window	2	6.20	0.10	**0.075**	0.09			
	Ventilator	1	3.60	0.10	**0.075**	0.03			
					Total	**0.18**			
	For three Houses	**3**		**0.18**		**0.54**	**41484.16**	**Cum**	**22401.00**
	Basic Rate	39136.00							
	Area Weightage @ 6%	2348.16							
	Total	**41484.16**							
23	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour,HOM of machineries completed as per specification (excluding cost of fixtures) Page No. 46, Item No. 9.18)								
	Door shutter	1	0.85	2.05		1.74			
					Total	**1.74**			
	For three Houses	**3**		**1.74**		**5.23**	**3018.88**	**Sqm**	**15782.00**
	Basic Rate	2848.00							
	Area Weightage @ 6%	170.88							
	Total	**3018.88**							